attached page is captioned "Version with markings to show changes made."

The 35 U.S.C. §112 Rejection

Claim 5 was rejected under 35 U.S.C. §112, first paragraph, for lack of enablement. The rejection is moot because claim 5 has been cancelled.

Claims 1, 4 and 10 stand rejected under 35 U.S.C. 112, second paragraph, as being indefinite. Applicants respectfully traverse this rejection.

Claims 1, 4 and 10 were rejected for reciting "pharmacologically effective dose". The claims have been amended to delete the phrase. Accordingly, Applicants respectfully request that the rejection of claims 1, 4 and 10 under 35 U.S.C. §112, second paragraph, be withdrawn.

The 35 U.S.C. §102 Rejection

Claims 1, 4 and 5 were rejected under 35 U.S.C. §102(b) as being anticipated by **Fuks** et al. The rejection is respectfully traversed.

Fuks et al. disclosed a method of inhibiting radiation-induced programmed cell death in vitro and in vivo by administering basic fibroblast growth factor. In contrast, claim 1 is drawn to a method of inhibiting the generation of ceramide from sphingomyelin by basic fibroblast growth factor. Claim 4 is drawn to a method of using basic fibroblast growth factor to treat endotoxic shock. Fuks et al. did not teach or suggest using basic fibroblast growth factor to inhibit the generation of ceramide from sphingomyelin, nor did Fuks et al. teach or suggest using basic fibroblast growth factor to treat endotoxic shock as claimed herein.

Examiner that administration The argued growth factor would inherently lead to inhibition of fibroblast ceramide generation from sphingomyelin. Applicants respectfully disagree. Fuks et al. did not teach or suggest administration of basic fibroblast growth factor would inherently lead to inhibition of ceramide generation from sphingomyelin. In contrast, Fuks et al. teach and suggest basic fibroblast growth factor activates membrane protein kinase C, not inhibition of ceramide generation sphingomyelin, as a mechanism for resistance to radiation damage and apoptosis (page 2588, column 2). Fuks et al. did not teach or suggest basic fibroblast growth factor would inhibit ceramide generation from sphingomyelin as claimed herein.

Since Fuks et al. does not teach or suggest each and every aspect of the instant invention, Fuks et al. does not anticipate claims 1 and 4 of the instant application. Accordingly, Applicants respectfully request that the rejection of claims 1, 4 and 5 under 35 U.S.C. §102(b) be withdrawn.

This is intended to be a complete response to the Office Action mailed February 27, 2002. If any issues remain outstanding, the Examiner is requested to telephone the undersigned attorney of record for immediate resolution.

Respectfully submitted,

Date: 1 2002

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS:

Qaim 1 has been amended as follows:

1. (amended) A method of inhibiting the generation of ceramide from sphingomyelin comprising the step of administering a pharmacologically effective dose of basic fibroblast growth factor to an animal in need of such treatment.

Qaim 4 has been amended as follows:

4 (thrice twice-amended) A method of treating endotoxic shock a pathophysiological state in an animal, wherein in said pathophysiological state an increase in generation of ceramide from sphingomyelin induces endothelial apoptosis in said animal, comprising the step of administering a pharmacologically effective dose of a basic fibroblast growth factor to said animal, wherein said fibroblast growth factor prevents endothelial apoptosis resulting from endotoxic shock by inhibiting the generation of ceramide from sphingomyelin.

Qaim 10 has been amended as follows:

at risk for sepsis, comprising the step of administering a pharmacologically effective dose of a basic fibroblast growth factor to said individual, wherein said fibroblast growth factor prevents endothelial apoptosis resulting from sepsis by inhibiting the to inhibit generation of ceramide from sphingomyelin to prevent endothelial apoptosis resulting from sepsis.